

**Accurate. Reliable. Cost Effective.**  
Emissions Monitoring for Compliance & Process Improvement



## CEMTEK KVB-Enertec Fully Extractive CEMS



### Features & Benefits

- ◆ Designed for maximum availability & ease of maintenance
- ◆ State of the art components are chosen for your specific application
- ◆ Rugged durable design built to last
- ◆ Fully extractive, dry measurement design
- ◆ Carefully selected measurement technology for your specification application
- ◆ Sample system design for fast response time
- ◆ Open panels, analyzers and parts arrangement for easy access and customer applications
- ◆ Modular design allows for ease of adding or removing gas analyzers and flow, opacity and particulate monitors
- ◆ Applies to boilers, turbines, furnaces, incinerators and heaters for power generation, biomass, cogen, hospitals, universities, refineries, glass manufacturers, steel, iron, furnaces and other industrial applications

[www.cemteks.com](http://www.cemteks.com)

At CEMTEK KVB-Enertec, we are the CEMS integration, reporting and service experts. We have designed our CEMS with the service technician in mind. Our designs allow for ease of maintenance, reduced downtime and guaranteed certification, year after year. With sample system components easily accessible, it's simple to follow your EPA QA/QC plan. Cemtek is your partner for start-up, training, certification and long term maintenance. Our parts experts are always available to meet all of your CEMS parts needs and our regulations experts ensure accurate, reliable reporting. Now, more than ever, it is easy for our customers to keep their long term costs low. With offices on each coast and a field technician network across the United States, we are ready to serve all industrial and utility plants. Our Southern California production facility offers over 14,000 SF of CEMS and shelter assembly space. In Linden, New Jersey, our 6,500SF east coast facility services the greater Northeast.

## Product Specifications

### Sample Probe:

- « Stainless steel standard material
- « Standard length 1.5 meter unless specified
- « Hastelloy and other material available for high temperature and corrosive applications
- « Purge/blowback on particulate laden flue gas
- « NH<sub>3</sub> converters and scrubbers
- « Permeation dryers

### Sample Line:

- « 3/8" sample tube in all bundles
- « 1/4" calibration tube application dependent
- « 3/8" instrument air for purge application dependent
- « Isolation valve, pressure/temperature compensation or spare tubes application dependent
- « All tubes, power and signal wires contained in a single bundle, designed to connect with probe selected

### Sample Conditioning System:

- « Standard 4-5 liters per minute flow
- « Standard gas compressor cooler
- « Thermoelectric or permeation dryer optional for specific application
- « NH<sub>3</sub> scrubber in line before analyzers in all SCR and SNCR applications
- « Standard open panel design for one or two sample conditioning systems
- « Multiple sample conditioning system in cabinets or shelter

### Analyzers:

- « Standard measurements include: NO<sub>x</sub>, CO, CO<sub>2</sub>, O<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, HCl, VOCs
- « Analyze using traditional or FTIR, TDL and GC (application specific)
- « Flexibility of design includes experience with many types of analyzers
- « Daily auto calibration meets EPA requirements
- « Flow monitors, opacity and particulate monitors
- « ABB, Ametek, Apex, Brand Gaus, CAI, Durag, EMRC, IMACC, Kurz, Land, MKS, PCME, Rosemount, Servomex, Sick Maihak, Siemens, T-API, Tekran, Thermo Fisher, TMLI, Unisearch, Western Research

### Controller:

- « Allen Bradley, GE, Modicon PLC's, ESC data loggers (other options available)
- « Standard alarm, calibration package and data transmission, diagnostic features that help to prevent or minimize down time
- « 7 day data storage backup
- « Optional Operator Interface Terminals (OITs)

### Enclosures:

- « Flexible design for cabinets
- « Compact for space constraints
- « Single bay available
- « Dual bay standard for 1-2 CEMS
- « NEMA 12, 3R, 4, 4X, stainless steel or fiberglass
- « Single or redundant HVAC units
- « Walk-in shelters standard design or custom
- « Enclosure for cal gas available

### Other Options:

- « UPS
- « Chart Recorder
- « Transformer
- « Class I, Div II, CSA, UL (electrical options)
- « DAHS - Data Acquisition and Handling System
- « USEPA 60/75, all state and local regulations
- « Plant air refrigeration, drying and filtering systems



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